In the Claims

Please amend the claims as follows:

- 1. (currently amended) A polymeric sponge <u>comprising</u> <u>pliant cellular granules</u> including <u>cellulose</u> fibers imbedded therein.
- 2. (original) A sponge according to claim 1 wherein said cellulose fibers are chemically bonded therein.
- 3. (original) A sponge according to claim 2 comprising a water-catalyzed prepolymer.
- 4. (original) A sponge according to claim 3 wherein said polymer comprises polyurethane.
- 5. (original) A sponge according to claim 3 wherein said polymer comprises polyether toluene disocyanate polyurethane.
- 6. (original) A sponge according to claim 3 comprising primarily only closed cells therein.
- 7. (original) A sponge according to claim 3 excluding surfactant therein.
- 8. (original) A sponge according to claim 3 further comprising abrasive particles imbedded therein.
- 9. (original) A sponge according to claim 8 excluding bonding agent on said abrasive particles.
- 10. (original) A sponge according to claim 8 wherein said abrasive particles are bonded in said polymer.

- 11. (currently amended) A <u>polymeric</u> sponge according to claim 10 wherein <u>comprising:</u>
- a water-catalyzed prepolymer including cellulose fibers imbedded and chemically bonded therein, and abrasive particles imbedded and bonded therein; and

said cellulose fibers are dispersed in said polymer water-catalyzed prepolymer between adjacent ones of said abrasive particles.

- 12. (currently amended) A polymeric sponge according to claim 10 comprising:
- a water-catalyzed prepolymer including cellulose fibers imbedded and chemically bonded therein, and abrasive particles imbedded and bonded therein; and

having a composition by weight of about 79% abrasive particles, about 18% prepolymer, about 2% catalyzing-water, and about 1% cellulose fiber.

- 13. (original) A sponge according to claim 10 comprising catalyzing-water and cellulose fiber in a weight ratio of about 2:1.
- 14. (original) A sponge according to claim 10 comprising catalyzing-water less than about 2% by weight.
- 15. (original) A sponge according to claim 3 wherein said polymer comprises polyether toluene disocyanate polyurethane in a matrix comprising primarily only closed cells.
- 16. (currently amended) A polymeric sponge according to claim 15 further comprising:
- a water-catalyzed prepolymer including polyether toluene disocyanate polyurethane in a matrix comprising primarily only closed cells;

cellulose fibers imbedded and chemically bonded in said

PATENT

Docket 13DV-14194

water-catalyzed prepolymer; and

abrasive particles bonded in said polymer watercatalyzed prepolymer, and said cellulose fibers are dispersed in said polymer water-catalyzed prepolymer between adjacent ones of said abrasive particles.

- 17. (original) A sponge according to claim 16 comprising a composition by weight of about 79% abrasive particles, about 18% prepolymer, about 2% catalyzing-water, and about 1% cellulose fiber.
- 18. (original) A sponge according to claim 17 excluding surfactant therein, and excluding bonding agent on said abrasive particles.
- 19. (currently amended) A polymeric sponge comprising pliant granules including water-catalyzed polyether toluene disocyanate polyurethane having primarily only closed cells therein, and cellulose fibers chemically bonded in said polymer.
- 20. (original) A sponge according to claim 19 excluding abrasive particles therein.
- 21. (original) A sponge according to claim 19 further comprising abrasive particles bonded in said polymer.
- 22. (currently amended) A <u>polymeric</u> sponge according to claim 21 comprising:
- a water-catalyzed prepolymer including polyether toluene disocyanate polyurethane having primarily only closed cells therein, cellulose fibers chemically bonded therein, and abrasive particles bonded therein; and
- a composition by weight of about 79% abrasive particles, about 18% prepolymer, about 2% catalyzing-water, and about 1%

FROM : Francis L Conte, Esq

FAX NO. :781 592 4618

Aug. 08 2003 10:42AM P5/14

PATENT Docket 13DV-14194

cellulose fiber.

23. (previously amended) A polymeric sponge including cellulose fibers imbedded therein made by the process comprising:

mixing water and cellulose fibers;

mixing a water-catalyzing prepolymer with said water and cellulose mixture for chemical reaction thereof;

curing said reacting mixture to form said polymeric sponge including said cellulose fibers integrally imbedded therein; and

granulating said sponge.

- 24. (previously amended) A sponge according to claim 23 further comprising premixing said water and cellulose fibers prior to mixing with said prepolymer to suspend said fibers substantially uniformly in said water.
- 25. (previously amended) A sponge according to claim 24 wherein said cellulose fibers are hydrophilic and absorb more than their weight in water during said premixing thereof with said water.
- 26. (previously amended) A sponge according to claim 25 further comprising releasing said absorbed water from said cellulose fibers in said chemical reaction with said prepolymer.
- 27. (previously amended) A sponge according to claim 26 wherein said water, fibers, and prepolymer are mixed without abrasive particles, and without the use of auxiliary heating or cooling thereof during said chemical reaction.
- 28. (previously amended) A sponge according to claim 26 further comprising mixing abrasive particles with said

prepolymer, water, and fibers for said chemical reaction thereof.

- 29. (previously amended) A sponge according to claim 28 wherein said particles are premixed with said prepolymer prior to mixing with said premixed water and fibers.
- 30. (previously amended) A sponge according to claim 29 further comprising heating said prepolymer and particles prior to mixing with said water and fibers.
- 31. (previously amended) A sponge according to claim 30 further comprising cooling said water and fibers prior to mixing with said prepolymer and particles.
- 32. (previously amended) A sponge according to claim 31 wherein said prepolymer and particles are separately heated prior to mixing thereof.
- 33. (previously amended) A sponge according to claim 32 wherein said prepolymer and particles are heated to about the same temperature.
- 34. (previously amended) A sponge according to claim 33 wherein said prepolymer and particles are heated to about 100 degrees (F).
- 35. (previously amended) A sponge according to claim 34 wherein said water and fibers are premixed in a weight ratio of about 2:1.
- 36. (previously amended) A sponge according to claim 35 wherein said water and fibers are cooled to about 55 degrees (F) prior to mixing with said heated prepolymer and particles.

- 37. (previously amended) A sponge according to claim 36 wherein said abrasive particles, prepolymer, water, and cellulose fibers are mixed by weight of about 79%, 18%, 2%, and 1%, respectively.
- 38. (previously amended) A sponge according to claim 37 wherein said prepolymer comprises polyether toluene disocyanate polyurethane.
- 39. (previously amended) A sponge according to claim 31 wherein said particles are mixed with said prepolymer without a bonding agent.
- 40. (previously amended) A sponge according to claim 31 further comprising extruding said mixed prepolymer, particles, water, and cellulose fibers in an elongate bun atop a moving conveyer belt as said chemical reaction progresses.
- 41. (previously amended) A sponge according to claim 40 further comprising dispensing a plastic sheet between said bun and belt to prevent sticking of said bun to said belt.
- 42. (previously amended) A sponge according to claim 40 further comprising:

cutting said bun into shorter slabs at the end of said belt; and

storing said slabs for a plurality of days for final curing thereof.

43. (previously amended) A sponge according to claim 42 further comprising in turn shredding said slabs into smaller pieces, granulating said pieces into smaller granules, and classifying said granules into substantially uniform size.